

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,325,170 B2
APPLICATION NO. : 10/804290
DATED : January 29, 2008
INVENTOR(S) : Karamadai Srinivasan et al.

Page 1 of 21

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 15, line 30, below "</html>"
insert

--

APPENDIX D

A portion of an embodiment of the device tester 304

```
#include <windows.h>
#include <tchar.h>
#include <stdlib.h>
#include <stdio.h>
#include <setupapi.h>
#include <cfgmgr32.h>
#include <string.h>
#include <malloc.h>
#include <newdev.h>

#define ARRAYSIZE(x) (sizeof(x)/sizeof(x[0]))
#define INSTANCEID_PREFIX_CHAR TEXT('@') // character used to prefix instance ID's
#define CLASS_PREFIX_CHAR TEXT('=') // character used to prefix class
name
#define WILD_CHAR TEXT("*") // wild character
#define QUOTE_PREFIX_CHAR TEXT("\"") // prefix character to ignore wild
characters
```

UNITED STATES PATENT AND TRADEMARK OFFICE
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Page 2 of 21

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
int EnumerateDevice();
int removeDevice(char *devID);
LPTSTR GetDeviceDescription(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo);

BOOL DumpDeviceDescr(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo); BOOL
DumpDeviceStatus(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo); BOOL
DumpDeviceWithInfo(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo,LPCTSTR Info);

#ifdef _UNICODE
#define UPDATEDRIVERFORPLUGANDPLAYDEVICES
"UpdateDriverForPlugAndPlayDevicesW"
#else
#define UPDATEDRIVERFORPLUGANDPLAYDEVICES
"UpdateDriverForPlugAndPlayDevicesA"
#endif

//
// exit codes
//
#define EXIT_OK (0)
#define EXIT_REBOOT (1)
#define EXIT_FAIL (2)
#define EXIT_USAGE (3)
```

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Page 3 of 21

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
typedef struct {  
    DWORD count;  
    DWORD control;  
    BOOL reboot;  
    LPCTSTR strSuccess;  
    LPCTSTR strReboot;  
    LPCTSTR strFail;  
}  
GenericContext;  
  
#define FIND_DEVICE      0x00000001 // display device  
#define FIND_STATUS      0x00000002 // display status of device  
#define FIND_RESOURCES    0x00000004 // display resources of device  
#define FIND_DRIVERS      0x00000008 // display drivers used by device  
#define FIND_HWIDS        0x00000010 // display hw/compat id's used by  
device  
#define FIND_DRIVERNODES  0x00000020 // display driver nodes for a device.  
  
Devcon.cpp  
  
#include "devcon.h"  
#include <string.h>  
  
FILE *stream;  
char *outfile;
```

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

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Page 4 of 21

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
TCHAR      szBuffer [6000];

void EncodeXMLString(string szInput, string& szOutput)
{
    string strBuffer;
    size_t nFirstIndex;
    strBuffer = szInput;
    nFirstIndex = strBuffer.find(_T(">"), 0);
    while (nFirstIndex != string::npos)
    {
        strBuffer = strBuffer.replace(nFirstIndex, _tcslen(_T("l")), _T("&gt;"));
        nFirstIndex = strBuffer.find(_T(">"), nFirstIndex+1);
    }
    nFirstIndex = strBuffer.find(_T("<"), 0);
    while (nFirstIndex != string::npos)
    {
        strBuffer = strBuffer.replace(nFirstIndex, _tcslen(_T("l")), _T("&lt;"));
        nFirstIndex = strBuffer.find(_T("<"), nFirstIndex+1);
    }
    nFirstIndex = strBuffer.find(_T(""), 0);
```

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

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INVENTOR(S) : Karamadai Srinivasan et al.

Page 5 of 21

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```
while (nFirstIndex != string::npos)
{
    strBuffer = strBuffer.replace(nFirstIndex, _tcslen(_T("!")), _T("&apos;"));
    nFirstIndex = strBuffer.find(_T(""), nFirstIndex+1);
}
nFirstIndex = strBuffer.find(_T("\\"), 0);
while (nFirstIndex != string::npos)
{
    strBuffer = strBuffer.replace(nFirstIndex, _tcslen(_T("!")), _T("&quot;"));
    nFirstIndex = strBuffer.find(_T("\\"), nFirstIndex+1);
}
nFirstIndex = strBuffer.find(_T("&"), 0);
while (nFirstIndex != string::npos)
{
    if (nFirstIndex != strBuffer.find(_T("&"), nFirstIndex) &&
        nFirstIndex != strBuffer.find(_T("&gt;"), nFirstIndex) &&
        nFirstIndex != strBuffer.find(_T("&lt;"), nFirstIndex) &&
        nFirstIndex != strBuffer.find(_T("&apos;"), nFirstIndex) &&
        nFirstIndex != strBuffer.find(_T("&quot;"), nFirstIndex))
    {
        strBuffer = strBuffer.replace(nFirstIndex, 1, _T("&"));
    }
    nFirstIndex = strBuffer.find(_T("&"), nFirstIndex+1);
}
szOutput = strBuffer;
} //EncodeXMLString
```

UNITED STATES PATENT AND TRADEMARK OFFICE
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APPLICATION NO. : 10/804290
DATED : January 29, 2008
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Page 6 of 21

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
LPTSTR GetDeviceStringProperty(HDEVINFO Devs,PSP_DEVINFO_DATA
DevInfo,DWORD
Prop)
{
    LPTSTR buffer;
    DWORD size;
    DWORD reqSize;
    DWORD dataType;
    DWORD szChars;
    size = 1024;
    buffer = new TCHAR[(size/sizeof(TCHAR))+1];
    if(!buffer)
    {
        return NULL;
    }
    while(!SetupDiGetDeviceRegistryProperty(Devs,DevInfo,Prop,&dataType,(LPBYTE)
buffer,size,&reqSize))
    {
        if(GetLastError() != ERROR_INSUFFICIENT_BUFFER) {
```

UNITED STATES PATENT AND TRADEMARK OFFICE
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PATENT NO. : 7,325,170 B2
APPLICATION NO. : 10/804290
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Page 7 of 21

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```
        goto failed;
    }
    if(dataType != REG_SZ) {
        goto failed;
    }
    size = reqSize;
    delete [] buffer;
    buffer = new TCHAR[(size/sizeof(TCHAR))+1];
    if(!buffer) {
        goto failed;
    }
}
szChars = reqSize/sizeof(TCHAR);
buffer[szChars] = TEXT('\0');
return buffer;
failed:
    if(buffer) {
        delete [] buffer;
    }
    return NULL;
}
```

UNITED STATES PATENT AND TRADEMARK OFFICE
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PATENT NO. : 7,325,170 B2
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DATED : January 29, 2008
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Page 8 of 21

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```
LPTSTR GetDeviceDescription(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo)
{
    LPTSTR desc;
    desc = GetDeviceStringProperty(Devs,DevInfo,SPDRP_FRIENDLYNAME);
    if(!desc) {
        desc = GetDeviceStringProperty(Devs,DevInfo,SPDRP_DEVICEDESC);
    }
    return desc;
}

void replaceStr(char *Str,char *newDevId, char ch)
{
    char *word;
    word = strtok(Str,"&");
    strcpy(newDevId,word);
    while(word!=NULL)
    {
        word = strtok(NULL,"&");
        if(word==NULL) break;
        strcat(newDevId,"&");
        strcat(newDevId,word);
    }
    return;
}
```


UNITED STATES PATENT AND TRADEMARK OFFICE
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PATENT NO. : 7,325,170 B2
APPLICATION NO. : 10/804290
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INVENTOR(S) : Karamadai Srinivasan et al.

Page 9 of 21

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
BOOL DumpDeviceWithInfo(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo,LPCTSTR
Info) {
    TCHAR devID[MAX_DEVICE_ID_LEN];
    BOOL b = TRUE;
    SP_DEVINFO_LIST_DETAIL_DATA devInfoListDetail;
    devInfoListDetail.cbSize = sizeof(devInfoListDetail);
    if(CM_Get_Device_ID(DevInfo-
>DevInst,devID,MAX_DEVICE_ID_LEN,0)!=CR_SUCCESS)
    {
        lstrcpy(devID,TEXT("?"));
        b = FALSE;
    }
    string szDevID=devID;
    string szOutputDevId;
    EncodeXMLString(szDevID,szOutputDevId);
    printf("\n%s",szOutputDevId.c_str());
    fprintf(stream,"\n\t\t<DeviceID>\\\"%s\\\"</DeviceID>",szOutputDevId.c_str());
    return b;
}
```

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,325,170 B2
APPLICATION NO. : 10/804290
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Page 10 of 21

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```
BOOL DumpDeviceDescr(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo)
{
    LPTSTR desc;
    const int      iStringMaximumLength_c = 8048;
    WCHAR          szwBigBuffer[iStringMaximumLength_c];
    const int      iMaxEight_c = 10096;
    CHAR           szBigBuffer[iMaxEight_c];
    desc = GetDeviceDescription(Devs,DevInfo);
    if(!desc) {
        printf("\nDevice Description is not available for this device");
        return FALSE;
    }
    MultiByteToWideChar(CP_ACP, 0, desc, -1, szwBigBuffer,
sizeof(szwBigBuffer));
    WideCharToMultiByte(CP_UTF8, 0, szwBigBuffer, -1, szBigBuffer,
sizeof(szBigBuffer), NULL, NULL);
    fprintf(stream,"\n\\N<DeviceDescription>\\\"%s\\\"</DeviceDescription>",szBigBu
ffer);
    printf("\n%s",desc);
    delete [] desc;
    return TRUE;
}

BOOL DumpDeviceStatus(HDEVINFO Devs,PSP_DEVINFO_DATA DevInfo)
{
    SP_DEVINFO_LIST_DETAIL_DATA devInfoListDetail;
```

UNITED STATES PATENT AND TRADEMARK OFFICE
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PATENT NO. : 7,325,170 B2
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Page 11 of 21

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
ULONG status = 0;
ULONG problem = 0;
BOOL hasInfo = FALSE;
    CMAPI CONFIGRET WINAPI CM_Get_DevNode_Status(OUT PULONG
pulStatus,OUT PULONG pulProblemNumber,IN DEVINST dnDevInst,IN ULONG ulFlags );
    devInfoListDetail.cbSize = sizeof(devInfoListDetail);
    if(CM_Get_DevNode_Status(&status,&problem,DevInfo->DevInst,0)!=CR_SUCCESS)
    {
        return FALSE;
    }
    printf("\nError Code : %i",problem);
    fprintf(stream,"\n\\t<ErrorCode>%i</ErrorCode>",problem);
    if((status & DN_HAS_PROBLEM) && problem == CM_PROB_DISABLED)
    {
        hasInfo = TRUE;
        printf("\n%s", "Device is disabled");
        fprintf(stream,"\n\\t<Status>%s</Status>", "Device is disabled");
        return TRUE;
    }
    if(status & DN_HAS_PROBLEM)
    {
        hasInfo = TRUE;
        printf("\n%s", "Device has a problem");
        fprintf(stream,"\n\\t<Status>%s</Status>", "Device has a problem");
    }
    if(status & DN_PRIVATE_PROBLEM)
```

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PATENT NO. : 7,325,170 B2
APPLICATION NO. : 10/804290
DATED : January 29, 2008
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Page 12 of 21

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```
{
    hasInfo = TRUE;
    printf("\n%s", "Device has a problem reported by the driver");
    fprintf(stream, "\n\t\t<Status>\t\"%s\t\"</Status>", "Device has a problem reported by
the driver");
}
if(status & DN_STARTED)
{
    printf("\n%s", "Device has been started");
    fprintf(stream, "\n\t\t<Status>\t\"%s\t\"</Status>", "Device has been started");
}
else if (!hasInfo)
{
    fprintf(stream, "\n\t\t<Status>\t\"%s\t\"</Status>", "Device is currently stopped");
    printf("\nDevice is currently stopped");
}
return TRUE;
}

int GetDeviceInfoAndDelete(char * devIDtoDelete)
```

UNITED STATES PATENT AND TRADEMARK OFFICE
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Page 13 of 21

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```
{
    HDEVINFO devs = INVALID_HANDLE_VALUE;
    DWORD err;
    int failcode = EXIT_FAIL;
    DWORD devIndex;
    SP_DEVINFO_DATA devInfo;
    SP_DEVINFO_LIST_DETAIL_DATA devInfoListDetail;
    BOOL matchFound = FALSE;
    SP_REMOVEDEVICE_PARAMS rmdParams;
    LPCTSTR action = NULL;
    TCHAR devID[MAX_DEVICE_ID_LEN];
    devInfoListDetail.cbSize = sizeof(devInfoListDetail);
    printf("Device to be deleted is %s", devIDtoDelete);
    devs = SetupDiGetClassDevs(
    NULL,NULL,NULL,DIGCF_ALLCLASSES|DIGCF_PRESENT);
    if(devs == INVALID_HANDLE_VALUE)
    {
        err = GetLastError();
        printf("SetupDiGetClassDevs failed: %lx.\n", err);
        failcode=EXIT_FAIL;
        goto final;
    }
}
```

UNITED STATES PATENT AND TRADEMARK OFFICE
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PATENT NO. : 7,325,170 B2
APPLICATION NO. : 10/804290
DATED : January 29, 2008
INVENTOR(S) : Karamadai Srinivasan et al.

Page 14 of 21

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```
devInfoListDetail.RemoteMachineHandle = NULL;
strcpy(devInfoListDetail.RemoteMachineName, "");
devInfoListDetail.cbSize = sizeof(devInfoListDetail);
devInfoListDetail.cbSize = sizeof(SP_DEVINFO_LIST_DETAIL_DATA);
devInfo.cbSize = sizeof(devInfo);
for(devIndex=0; SetupDiEnumDeviceInfo(devs, devIndex, &devInfo); devIndex++)
{
if(CM_Get_Device_ID(devInfo.DevInst, devID, MAX_DEVICE_ID_LEN, 0) != CR_SUCCESS)
{
    strcpy(devID, TEXT("?"));
}
printf("Dev ID for comparison is : %s\n", devID);
if(strcmp(devID, devIDToDelete) == 0)
{
    printf("\n match found");
    matchFound = TRUE;
    rmdParams.ClassInstallHeader.cbSize =
sizeof(SP_CLASSINSTALL_HEADER);
    rmdParams.ClassInstallHeader.InstallFunction =
DIF_REMOVE;
    rmdParams.Scope = DI_REMOVEDEVICE_GLOBAL;
    rmdParams.HwProfile = 0;
if(!SetupDiSetClassInstallParams(devs, &devInfo, &rmdParams.ClassInstallHeader
sizeof(rmdParams)) || !SetupDiCallClassInstaller(DIF_REMOVE, devs, &devInfo))
```

UNITED STATES PATENT AND TRADEMARK OFFICE
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Page 15 of 21

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
        {
            failcode = EXIT_FAIL;
            goto final;
        }
        printf("\n\n Device has been deleted");
        break;
    }
}
// The device was deleted!!
if(matchFound == FALSE)
{
    printf("\n\n No matching device id found!!");
    failcode = EXIT_FAIL;
}
else
{
    failcode = EXIT_OK;
}
final:
if(devs != INVALID_HANDLE_VALUE) {
    printf("destorying DevsInfoList");
    SetupDiDestroyDeviceInfoList(devs);
    printf("After destorying DevsInfoList");
}
return failcode;
}
```

UNITED STATES PATENT AND TRADEMARK OFFICE
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Page 16 of 21

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
int EnumerateDevice()
{
    HDEVINFO devs = INVALID_HANDLE_VALUE;
    DWORD err;
    int failcode = EXIT_FAIL;
    DWORD devIndex;
    SP_DEVINFO_DATA devInfo;
    SP_DEVINFO_LIST_DETAIL_DATA devInfoListDetail;
    DWORD numClass = 0;
    int skip = 0;
    devs = SetupDiGetClassDevs(
NULL,NULL,NULL,DIGCF_ALLCLASSES|DIGCF_PRESENT);
    //devs = SetupDiGetClassDevs(
NULL,NULL,NULL,DIGCF_ALLCLASSES|DIGCF_PROFILE);
    if(devs == INVALID_HANDLE_VALUE)
    {
        err = GetLastError();
        printf( "SetupDiGetClassDevsEx failed: %lx.\n", err );
        failcode= EXIT_FAIL;
    }
}
```


UNITED STATES PATENT AND TRADEMARK OFFICE
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Page 17 of 21

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```
        goto final;
    }
    devInfoListDetail.RemoteMachineHandle = NULL;
    strcpy(devInfoListDetail.RemoteMachineName,"");
    devInfoListDetail.cbSize = sizeof(devInfoListDetail);
    devInfoListDetail.cbSize = sizeof(SP_DEVINFO_LIST_DETAIL_DATA);
    devInfo.cbSize = sizeof(devInfo);
    for(devIndex=0;SetupDiEnumDeviceInfo(devs,devIndex,&devInfo);devIndex++)
    {
        TCHAR devID[MAX_DEVICE_ID_LEN];
        if(CM_Get_Device_ID(devInfo.DevInst,devID,MAX_DEVICE_ID_LEN,0)!=CR_SUCCESS)
        {
            strcpy(devID,TEXT("?"));
        }
        // printf("Dev ID for comparison is : %s\n",devID);
        printf("\n\n");
        fprintf(stream,"\n\t<Device>");
        if(!DumpDeviceWithInfo(devs,&devInfo,NULL)) return EXIT_OK;
        DumpDeviceDescr(devs,&devInfo);
        DumpDeviceStatus(devs,&devInfo);
        fprintf(stream,"\n\t</Device>");
    }
```

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,325,170 B2
APPLICATION NO. : 10/804290
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Page 18 of 21

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```
    }  
    failcode = EXIT_OK;  
final:  
    if(devs != INVALID_HANDLE_VALUE) {  
        SetupDiDestroyDeviceInfoList(devs);  
    }  
    return failcode;  
}  
  
int removeDevice(char *devID)  
{  
    printf("%s",devID);  
    return GetDeviceInfoAndDelete(devID);  
}  
  
int listDeviceStatus()  
{  
    int result;  
    if(outfile!=NULL)  
    {  
        stream = fopen(outfile, "w" );  
    }  
    else  
    {  
        stream = fopen("devlist.xml", "w" );  
    }  
}
```

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Page 19 of 21

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```
    }  
    fprintf(stream,"<DeviceManager>");  
    result = EnumerateDevice();  
    fprintf(stream,"\n</DeviceManager>");  
    fclose( stream );  
    return result;  
}  
  
void writeReturnCode(int code)  
{  
    FILE *Ostream;  
    Ostream = fopen( "DMStatus.out", "w" );  
    fprintf(Ostream,"%i",code);  
    fclose(Ostream);  
}  
  
void main(int argc,LPTSTR argv[])  
{  
    int retval;  
    if(argc<2)  
    {
```

UNITED STATES PATENT AND TRADEMARK OFFICE
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PATENT NO. : 7,325,170 B2
APPLICATION NO. : 10/804290
DATED : January 29, 2008
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Page 20 of 21

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```
        printf("Wrong arguments");
        writeReturnCode(3);
        exit(3);
    }
    if(strcmp(argv[1],"remove")==0)
    {
        //Check if the id is specified
        printf("calling remove device %s ", argv[2]);
        if(argv[2]==NULL)
        {
            printf("Missing device id");
            writeReturnCode(3);
            exit(3);
        }
        retval = removeDevice(argv[2]);
        writeReturnCode(retval);
        exit(retval);
    }
    if(strcmp(argv[1],"status")==0)
    {
        // if the out file name is specified
        if(argc==3)
        {
            outfile =argv[2];
        }
    }
```

UNITED STATES PATENT AND TRADEMARK OFFICE
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Page 21 of 21

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```
        printf("Calling status");  
        retval = listDeviceStatus();  
        writeReturnCode(retval);  
        exit(retval);  
    }  
    writeReturnCode(2);  
    exit(2);  
}
```

--.

In column 16, line 2, in Claim 3, delete "Suitable" and insert -- suitable --, therefor.

In column 16, line 52, in Claim 9, delete "deivce" and insert -- device --, therefor.

Signed and Sealed this

Fifth Day of August, 2008



JON W. DUDAS
Director of the United States Patent and Trademark Office